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Model No.: FR0433M92-TE11
433.92 MHz SAW Resonator

Rev. No.: 1

A. Feature:

1. One-port SAW Resonator

B. Maximum Ratings:

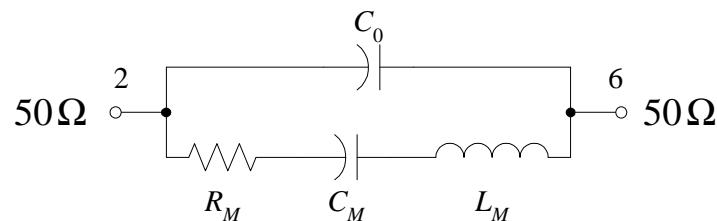
1. Input Power Level: 0dBm
2. DC Voltage: 12V
3. Storage Temperature: -40°C to +85°C
4. Operating Temperature Range: -40°C to +85°C

C. Electrical Specifications:

Ambient Temperature: 25°C

| Item | Unit | Min. | Typ. | Max. |
|--|--------------------|---------|--------|---------|
| Center Frequency, f_r | MHz | 433.845 | 433.92 | 433.995 |
| Insertion Loss, IL | dB | - | 1.2 | 2.0 |
| Unloaded quality factor, Q_U | | - | 15000 | - |
| Loaded quality factor, Q_L | | - | 2000 | - |
| RF Equivalent RLC Model | | | | |
| Motional Resistance, R_M | Ω | - | 13 | - |
| Motional Capacitance, C_M | fF | - | 72.440 | - |
| Motional Inductance, L_M | μ H | - | 1.916 | - |
| Shunt Static Capacitance, C_0 | pF | - | 2.690 | - |
| Turnover Temperature, T_0 | °C | - | 30 | - |
| Frequency Temperature Coefficient, FTC | ppm/k ² | - | 0.032 | - |

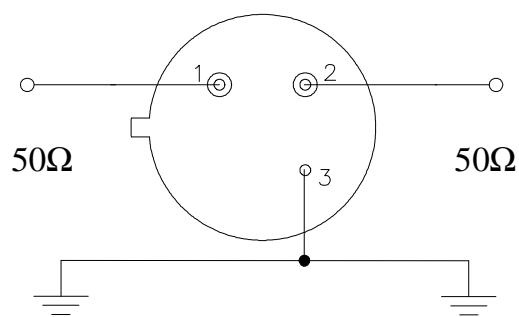
D. RF Equivalent Model:



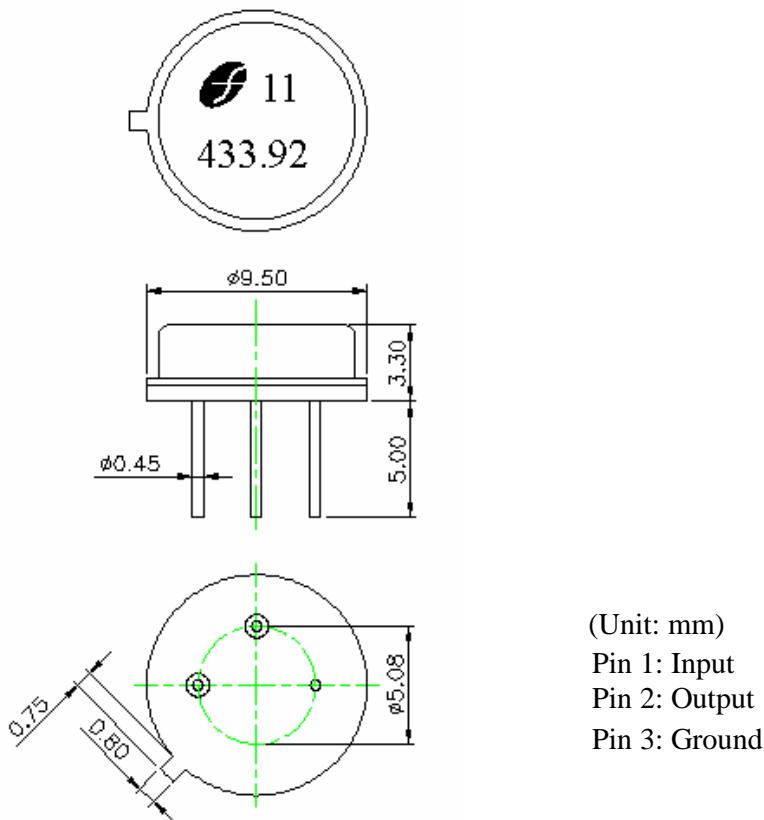
E. Characteristics:



F. Test Circuit:



G. Package and pin configuration:



(Unit: mm)

Pin 1: Input

Pin 2: Output

Pin 3: Ground